

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) Device for measuring current in a line (5) supplied by a voltage with noise, comprising:

a shunt (8) mounted in series in the line (5);

a floating shunt signal amplifier (15);

a floating supply means (C1, C2, D1, D2) to supply said floating amplifier (15) with a voltage that follows the supply voltage of the shunt (8); and

a differential amplifier (9) whose inputs are connected, on the one hand, to an input terminal (12) of the shunt (8), and, on the other hand, to the output (14) of the floating amplifier (15).

2. (previously presented) Device according to claim 1, characterized in that the line (5) is a supply line of an asynchronous triphase electric motor (1), said electric motor (1) being supplied by a chopped voltage, having a power of about 500 watts, and in that the shunt (8) has a value of about 1 mΩ.

3. (cancelled)

4. (currently amended) Device according to claim [[3]] 1, characterized in that the floating amplifier (15) has its

inputs connected to the terminals (12, 13) of the shunt (8) and in that the floating supply means (C1, C2, D1, D2) is constituted by a first voltage connection to a battery positive voltage source and a second voltage connected to ground a negative voltage source.

5. (currently amended) Device according to claim 4, characterized in that the floating supply means comprises:

the connection of a terminal of voltage VCC of said floating amplifier (15) to a battery (2) via a diode D1, and the mounting of a condenser C1 between the input terminal (12) of the shunt and the cathode (16) of the diode D1, and

the connection of a terminal of voltage GND (or VEE) of the floating amplifier (15) to the ground (10) via a diode D2 and the mounting of a condenser C2 between the input terminal (12) of the shunt and the anode (17) of the diode D2.

6. (original) Device according to claim 5, characterized in that the floating amplifier (15) is supplied at a voltage double the supply voltage of the shunt (8), before chopping.

7. (previously presented) Device according to claim 1, characterized in that it is used in an electrical power steering for an automotive vehicle.

8-20. (cancelled)